## (19) World Intellectual Property Organization International Bureau

TIPO TOMPI



(43) International Publication Date 9 June 2005 (09.06.2005)

PCT

## (10) International Publication Number WO 2005/051923 A1

- (51) International Patent Classification<sup>7</sup>: C07D 239/94, 401/12, 401/14, 403/12, 405/14, 409/12, 413/12, 417/12, A61K 31/498, 31/5377, A61P 35/00
- (21) International Application Number:

PCT/GB2004/004761

(22) International Filing Date:

11 November 2004 (11.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0326459.5

13 November 2003 (13.11.2003) GB

- (71) Applicant (for all designated States except MG, US): AS-TRAZENECA AB [SE/SE]; S-SE-151 85 Sodertalje (SE).
- (71) Applicant (for MG only): ASTRAZENECA UK LIM-ITED [GB/GB]; 15 Stanhope Gate, London, Greater London W1K 1LN (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BRADBURY, Robert, Hugh [GB/GB]; AstraZeneca R & D Alderley, Alderley Park, Macclesfield, Cheshire SK10 4TG (GB). HENNEQUIN, Laurent, Francois, Andre [FR/FR]; AstraZeneca, Z.I. la Pompelle BP 1050, Cedex 2, F-51689

Reims (FR). KETTLE, Jason, Grant [GB/GB]; AstraZeneca R & D Alderley, Alderley Park, Macclesfield, Cheshire SK10 4TG (GB).

- (74) Agent: ASTRAZENECA; Global Intellectual Property, S-151 85 Södertälje (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: QUINAZOLINE DERIVATIVES

$$A = \begin{pmatrix} R^{6} & R^{5} & R^{4} & R^{2} & X^{1} & Q^{1} \\ N & R^{5a} & R^{4a} & R^{2} & R^{3} & (R^{3})_{n} & (I) \end{pmatrix}$$

(57) Abstract: A quinazoline derivative of the Formula (I): wherein the substituents are as defined in the text for use in the production of an anti proliferative effect which effect is produced alone or in part by inhibiting erbB2 receptor tyrosine kinase in a warm-blooded animal such as man.